

Title (en)

Monolith catalytic reactor coupled to static mixer

Title (de)

Monolithischer Reaktor mit Katalysator, gekoppelt mit einem statischen Mixer

Title (fr)

Réacteur monolithique avec catalyseur couplé à un mélangeur statique

Publication

**EP 1287884 B1 20060322 (EN)**

Application

**EP 02019084 A 20020828**

Priority

- US 94283901 A 20010830
- US 5378702 A 20020121

Abstract (en)

[origin: EP1287884A2] The invention pertains to an improved apparatus comprised of a monolith catalytic reactor having an inlet and an outlet and a static mixer having an inlet and an outlet thereto with the outlet of said static mixer in communication with the inlet of said monolith catalytic reactor. The invention also pertains to an improvement in a process for effecting a reaction in the monolith catalytic reactor wherein a reactant gas and reactant liquid are introduced to the inlet to the monolith catalytic reactor, reacted and, then, the reaction product passed through the outlet of the monolith catalytic reactor. <IMAGE>

IPC 8 full level

**B01F 3/04** (2006.01); **B01J 19/24** (2006.01); **B01F 5/00** (2006.01); **B01F 5/06** (2006.01); **B01J 8/04** (2006.01); **B01J 19/00** (2006.01); **B01J 35/04** (2006.01); **C07B 61/00** (2006.01); **C07C 209/36** (2006.01); **C07C 211/50** (2006.01)

CPC (source: EP KR US)

**B01F 25/4322** (2022.01 - EP US); **B01J 8/04** (2013.01 - KR); **B01J 19/0053** (2013.01 - EP US); **B01J 19/2485** (2013.01 - EP US); **B01J 35/56** (2024.01 - EP US); **C07C 209/36** (2013.01 - EP US); **Y02P 20/582** (2015.11 - EP US)

Cited by

EP2175974A4; CN112638516A; EP3851187A4; US7045107B2; DE102008063991A1; US11992820B2; US8262754B2; US7897119B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

**EP 1287884 A2 20030305**; **EP 1287884 A3 20040204**; **EP 1287884 B1 20060322**; AT E320848 T1 20060415; BR 0203375 A 20030527; CN 1219592 C 20050921; CN 1403191 A 20030319; DE 60209969 D1 20060511; DE 60209969 T2 20060817; ES 2256375 T3 20060716; JP 2003176255 A 20030624; JP 3893092 B2 20070314; KR 100457284 B1 20041116; KR 20030019191 A 20030306; US 2003049185 A1 20030313; US 2005129594 A1 20050616; US 7109378 B2 20060919; US 7595029 B2 20090929

DOCDB simple family (application)

**EP 02019084 A 20020828**; AT 02019084 T 20020828; BR 0203375 A 20020826; CN 02132115 A 20020830; DE 60209969 T 20020828; ES 02019084 T 20020828; JP 2002251007 A 20020829; KR 20020051376 A 20020829; US 4858205 A 20050201; US 5378702 A 20020121